



# Grade 9 Course Information 2019-2020

“Learning today; thriving tomorrow”

## Core Program

The grade 9 program focusses on sound foundations of literacy and numeracy while supporting the development of students who are competent thinkers and communicators, and who are personally and socially competent in all areas of their lives. British Columbia’s curriculum honours the ways in which students think, learn, and grow, and prepares them for a successful lifetime of learning where ongoing change is constant.

## Applied Design, Skills and Technologies

The Applied Design, Skills, and Technologies (ADST) curriculum fosters the development of the skills and knowledge that will support students in developing practical, creative, and innovative responses to everyday needs and challenges. Through design and creation, that includes skills and concepts from traditional and First Peoples practice, from the existing disciplines of Business Education, Home Economics and Culinary Arts, Information and Communications Technology, and Technology Education, students gain understanding of how to apply their skills to both finding challenges and solving them in creative ways.

# GRADE 9

## Required courses:

- Humanities 9
- Math 9
- Science 9
- Physical and Health Education 9
- Elective
- Elective
- Elective

## HUMANITIES 9

Humanities 9 is a year long course that combines elements of both English and Social Studies 9 curricula. Students will learn about the 4 pillars of Humanities: culture/society, economy/technology, politics/law, and environment. Through a balanced literacy approach that includes different instructional methods, including inquiry, students will focus on the core competencies: Reading and Viewing, Oral Language (Speaking and Listening), and Writing and Representing.

## MATHEMATICS 9

This course reviews arithmetic skills, provides for additional understanding of real numbers and the associated algebra, graphing in two dimensions, solving equations and formulas, extends geometric concepts, examines applications of numbers, algebra, and geometry, and has emphasis on problem-solving.

## SCIENCE 9

Building on laboratory skills and the methods of scientific inquiry introduced in Science 8, students discover some of the more basic principles of atomic theory, the flow of electrons, reproduction, and the cycling of matter and energy in nature, through experimentation and class activities. Inquiries in science provide specific opportunities for students to learn by questioning and predicting, planning and conducting, processing and analyzing data, evaluating, and by communicating.

## PHYSICAL & HEALTH EDUCATION 9

This healthy learning course places an emphasis on physical movement and skill development, along with education and discussion on healthy living – active lifestyle and healthy eating habits, healthy relationships, safety and injury prevention and substance abuse/misuse.

## FRENCH 9

This course expands on and further develops the basic listening, speaking, reading and writing skills learned in French 8. Learn more about the culture and increase your communication skills through real-life themes, cultural activities and projects.

***Recommendation for French 9 is French 8***

## **SPANISH 9**

This is an introductory course which develops communication skills and cultural awareness. Learn basic communication skills in listening, speaking, reading and writing. Experience the exciting language and culture of Spanish speaking countries through real-life themes, cultural activities and projects.

## **ENTREPRENEURSHIP & MARKETING 9**

**“The World of Business”**

Do you visualize yourself running a business one day? Are you interested in learning what the boss actually does in his or her job? How do business people know what will sell? How do they know when to put something on sale? How do you create and then sell a brand new product or invention? What are the steps involve in creating a new venture? These are some of the questions we will cover in this business course. It is a terrific course for learning how to offer great customer service . . . the very skills most retailers are looking to hire! Start working on your future...test out your ideas through the many real life problem solving scenarios we will explore!

## **INFORMATION & COMPUTER TECHNOLOGIES 9**

This popular course introduces students to the basics of computer programming. Anyone can do it and it is fun, fun, fun! With online tutorials designed for all levels of learning, students will have the opportunity to create a number of projects to demonstrate what they have learned. We will dabble with webpage designs, basic game development, photo editing, animation, and keyboarding. Students will have one day per week to investigate and learn any computer skills they wish to develop on their own. This is genius time—the time to explore, and then share what you learned so we all increase our learning! Roll out the red carpet, pop the popcorn, and select this class to enjoy the times when we sit back and enjoy the films we create!

## **MEDIA DESIGN 9**

This course introduces the students to the different aspects of computer graphics and animation. This course is offered to support and encourage students to explore the diversity and possibilities of computer graphics and the electronic artistic medium of computer animation. There are no pre-requisite skills required as this is an introductory course and students will start from the basics of file management (saving, flash drives, email and web). Using graphics from Google and programs like MS word, PowerPoint, Photoshop and Flash. The course will also introduce 3D Animation using 3D Studio Max. Lastly students will learn the basics of video editing using Movie Maker and how to properly publish their work (eg youtube). Students will synthesize information from a variety of electronic sources for their presentations using a variety of technologies and hardware (scanners, cameras). We will also investigate and scrutinize the billion dollar industry of Computer Animation. Computer graphics and animation offers a unique opportunity for students to utilize their graphic, written and technology skills – all requirements for the future workforce.

## **WOODWORK 9**

This is an introduction to the safe and correct use of woodworking tools and machinery, as well as to common joinery and finishing procedures. This course is designed to teach essential woodworking skills. In addition to the traditional concern for craftsmanship and safety, emphasis will be placed on work habits, and efficient use of time. Students will

be required to build projects centered on box construction and table construction techniques. In each assignment, a limited choice of designs is available, and upon completion of the course students will typically have built for themselves items such as a cutting board, a jewelry box and/or a CD case, an end table, and an item turned on the wood lathe, such as a mallet, bowl, or goblet.

## **DRAFTING 9**

This introductory course is designed to prepare each student for potential careers in Interior or Exterior design, Engineering or Architecture – or just for fun. Using the latest in 3D software by AutoCad, students will design homes, commercial spaces, parks and recreation areas. Using other features of these professional programs, we can explore areas in Engineering as well. Bring your creative and artistic ideas.

## **POWER MECHANICS 9**

Are you interested in everything to do with machines and metal? This one semester course will introduce students to the world of single cylinder engines, welding and metal fabrication. This project based course leads directly into: Auto Mechanics 10 / Metal Work and Fabrication 10.

## **METALWORK 9**

Metalwork 9 is a general metalwork course providing a variety of practical exploratory experiences in various areas of the metal trades. The fundamentals of computer controlled machining is covered from CAD drawings to numerical control files which run the CNC machines. Hands on practical experience is a major part of this program. SMAW, GMAW, OXY/ACE, welding tasks are performed. Manual lathing and milling operations are introduced.

## **FOOD STUDIES 9**

Students in this course will develop the knowledge, skills, and attitudes necessary to use a variety of food-preparation techniques to prepare nutritious, tasty, attractive foods in a cost and time effective manner. They will access a variety of information to support relevant Foods and Nutrition topics. Students will then apply the principles of nutrition to their own food/lifestyle choices. Global issues relating to food production and consumption will be addressed. Lastly, students will develop the knowledge, skills, and attitudes necessary for effective communication and teamwork.

## **TEXTILES 9**

This course reviews skills taught in Grade 8 and then introduces students to commercial patterns. Projects may include tops, hoodies, skirts, dresses as well as decorator items. Students will choose projects that match their abilities and interests.

## **ART 9**

Art 9 is the second level of foundation art skills. Design knowledge and drawing skills enhance and encourage personal expression. Activities include painting and drawing, sculpture, printmaking and ceramics. Students continue

to develop their personal skills, gain knowledge about the art of their world present and past, as well as develop an appreciation of the art of others.

## **DRAMA 9**

Drama 9 is a course in creative or developmental drama. We will be working on basic skills such as mime, movement, improvisation, role-playing, and speech, while developing personal skills like concentration, trust and team work. Students should be aware that some written work is required.

## **MUSICAL THEATRE 9**

Thinking of auditioning for the musical next year? Want credit for all those after-school hours? Musical Theatre 9 through 12 will give you hands-on training in performance: stage, dance and choral. Roles will be auditioned in June for the production in end of November or early December of the next school year. This is an after school, curricular course meeting each Monday, Wednesday and Friday after school.

## **PERFORMING ARTS ACADEMY 9**

Dover Bay Secondary's Fine Arts Department offers a Performing Arts Academy. This course is designed for aspiring actors who wish to participate in an enriched educational experience of performing arts education.

The program offers students with a focus on performing the opportunity to further develop their acting skills and knowledge in theatre and film toward a high level of excellence. In addition, students will develop competitive auditioning skills and a professional portfolio to prepare them for career and education opportunities in the performing arts.

The Performing Arts Academy will provide committed students with an opportunity to enroll in enriched performing arts classes with students of similar interests and needs while continuing with a regular academic course load.

## **CONCERT BAND 9**

The Concert Band is the main ensemble for brass, woodwind, and percussion. These bands will involve the majority of students in the Music Program and perform a wide variety of musical styles, including Classics, Overtures, Film Music, and some Pop music. The Concert Band will perform in concerts, festivals, and on tour.

***Recommendation: Previous level of Concert Band or permission of instructor.***

## **JAZZ ENSEMBLE 9**

The Jazz Band is open to players of trumpet, trombone, saxophone, keyboard, guitar, bass, and drums. Jazz Band musicians will study and perform Jazz, Latin, and Rock styles and they will have an opportunity to learn solo improvisation. The Jazz Band will perform in concerts, festivals, and on tour. Jazz Band cannot accommodate all music program students.

***JAZZ BAND PLAYERS ARE STRONGLY URGED TO ELECT CONCERT BAND IN ADDITION TO JAZZ BAND IF THEIR SCHEDULE PERMITS.***

Students desiring to participate in extra-curricular band groups must also be registered and participate in a concert band or jazz band course or have their counsellor's permission.

***Recommendation: Previous level of Jazz Band or permission of instructor.***

## **DANCE 9**

This course is focused on movement in a variety of genres including contemporary, tap, hip hop and world culture dance. Study will also include the history of dance, technical performance elements (such as costuming and lighting), and advanced criteria for choreography. There may be an opportunity for students to participate in a variety of workshops with guest teachers. Intermediate dance will allow students to continue their skill development in those styles learned in the beginner level. Further focus will be upon school performance and creating their own choreography.

## **OUTDOOR EDUCATION 9**

Outdoor Education is a course designed to enable students to develop an understanding and appreciation of the different types of outdoor physical activities. Students will explore how participation in various types of outdoor activities can influence the health and well-being of individuals and the environment. Examples activities could be: local seashore hikes, Lantzville and Lynn Valley hikes, canoeing on Brannen Lake, rock climbing Romper Room, orienteering, and geocaching. Outdoor sports activities could be: Tennis, Ultimate Frisbee, Disk Golf and Flag Football. The course will combine outside time with classroom instruction. There will be instruction in First Aid (certification), Water Safety, and Hiking Preparation. Students considering a Career and/or educational path related to recreation, environmental conservation or other related area would benefit from this curriculum ( Game Warden, Recreation Programmer, Field Biologist) Also, students just wanting to learn more about participating in outdoor activities will find this course enjoyable.

## **DANCE FITNESS 9-12**

The purpose of this course is to improve your overall fitness through music and movement. The main goal is to teach you how create a stronger mind and body through group fitness activities with the involvement of the elements of movement as it relates to the art of dance. This course will include boot camp style work outs, yoga, stretching/relaxation/breathing techniques, dance and group fitness choreography and fitness theory. The overall message of this course is to dance for fun and fitness. Determination, resilience, creativity, collaboration, personal reflection, communication, respect, and social responsibility comprise the core values of this course. Students are expected to adhere to studio etiquette which is strictly enforced: no outside shoes, no food or drink, no phones or other electronics and students must dress appropriately for exercise. All students with the determination to acquire a healthy mind and body are welcome. No previous dance experience required regardless of the student's grade level.

## **ELECTRONICS & ROBOTICS 9**

Robotics 9 is an introductory course to the uses of electronics and robotics and is part of the new STEM curriculum. Students will explore components of an electric circuit, basic robot behaviours, and mechanical devices for the transfer of mechanical energy, and robotics coding and programming. This hands on course allows students to learn with robotics equipment including VEX robots, Mindstorms Lego Robot, Arduino programming and many more. Students will explore how robotics are changing our world in many forms including careers opportunities, artificial intelligence and how robots work in many industries.